1 2	WITH CONDITION RESPONSIVE MEANS .For controlling outlet valve	23	WITH MEANS FOR FURNISHING AUXILIARY FLUID TO MATERIAL OR APPARATUS
3	In response to location of inner boundary of heavy component	24	Energy of fluid utilized for driving bowl
4	In response to centrifugal	25	.Gas other than air
	force	26	.Air at atmospheric, or greater,
5	.For controlling inlet valve		pressure
6	In response to level of liquid-	27	.Liquid
	type material in bowl or in	28	Moving radially inwardly toward
	reservoir for supplying bowl		axis of rotation of bowl
7	.For controlling drive of (a)	29	Furnished at plural locations
	bowl or (b) driven means	30	Including one or more valves in
	within bowl		incoming path
0		31	INCLUDING PLURALITY OF SEPARATE
8	In response to load imposed	31	AND DISTINCT BOWLS
0	upon driven means	32	.And means external of bowls for
9	In response to speed of bowl or	34	conducting material
	rotarily-driven means		therebetween
	therewithin	33	
10	WITH MEANS FOR INDICATING,	33	.Having bowls equally spaced from
	INSPECTING, MEASURING,		a central axis of rotation for orbiting thereabout
11	SIGNALING OR TESTING	34	.Having bowls spaced along common
11	WITH CYCLIC OR TIME CONTROL MEANS	51	axis of rotation
12	INCLUDING MEANS OR STRUCTURE FOR	35	BOWL AND MEANS EXTERNAL THEREOF
1.0	PROMOTING SAFETY	33	FOR RECIRCULATING MATERIAL
13	WITH MEANS FOR EXCHANGING HEAT	36	WITH MEANS FOR FILTERING
14	.Comprising or including means	36 37	
	for cooling	_	PROCESS
15	WITH MEANS FOR LUBRICATING	38	INCLUDING SEALING MEANS
16	INCLUDING PLURALITY OF MINIATURE	39	.For protecting evacuated, bowl-
	BOWLS (E.G., TEST TUBES)		enclosing housing against
	DISTRUBUTED ABOUT ROTATABLE		gaseous infiltration
	CARRIER AND READILY REMOVABLE	40	.Comprising seal, or element
	THEREFROM		cooperating therewith, movable
17	.And means for introducing either		axially for controlling outlet
	material or auxiliary fluid		on periphery of bowl
	into bowls	41	.For sealing between stationary
18	Including conduit of flexible		and moving elements
	umbilical cable type	42	INCLUDING DRIVEN MEANS AT LEAST
19	.And means for rotating each bowl		PARTIALLY EXTERNAL OF BOWL FOR
	about own axis		MOVING MATERIAL THERETO OR
20	.Having bowls, or holders		THEREFROM
	therefor, pivotaby attached to	43	ROTATABLE BOWL
	carrier for tilting during	44	.Comprising plurality of bowls
	rotation of carrier		partly or wholly within one
21	.Comprising flexible bowls		another
	embraced by pockets provided	45	.Including flexible, removable
	therefor in carrier		lining therein
22	INCLUDING INTRODUCTION OF	46	.Including bearing means adapted
	DIFFERING-WEIGHT FLUIDS (E.G.,		to enable bowl to establish
	LIQUIDS) FOR COUNTERCURRENT		dynamic axis of rotation
	et om		

47	.Including means for imparting other movement to bowl in whole or in part before,	64	<pre>.Having structural provision for facilitating cleaning (e.g., quick take apart)</pre>
4.0	during or after its axial rotation	65	.Vertically-oriented, and including structural provision
48	<pre>Axial movement of one portion   of bowl wall relative to   another (e.g., for   discharging)</pre>	66	for bottom entry of material .Including structure located within bowl and defining axially-extending, helical
49	.Driven by energy of material supplied	67	flow path .Including structure located
50	.Including driven material-moving means therein	07	within vertically-oriented bowl and extending outwardly
51	Plural driven means		from central region (e.g.,
52	Rotatably driven coaxially with	68	<pre>axis) thereofComprising plurality of</pre>
53	<pre>bowl, but differing as to   direction or speedIncluding element having</pre>	00	elements, each concentrically encircling axis of bowl and
	helical blade		spaced therealong
54	Modified blade	69	Each extending generally
55	Including plurality of discrete pushing or scraping elements moving proximate to		normally to region, and having surface displaying three- dimensional configuration
	material collecting surface of bowl	70	Each extending away from region with significant
56	.Including discharge-related structure in nature of (a) outlet having device for		<pre>downward, as well as significant outward, component (e.g., nested cones)</pre>
	controlling quantity of flow, (b) element associated with pickup of material and adjustable for varying quality	71	<pre>And the plurality divided   vertically into two or more,   physically separate or   functionally distinct groups</pre>
	of flow, or (c) static scraper or the like for engaging	72	And extending therebeyond generally downwardly
	material in moving bowl	73	And one or more elements
57	Element associated with pickup of material and adjustable for varying quality of flow		having surface displaying three-dimensional configuration
58	Static scraper or the like for	74	Comprising plurality of
	engaging material in moving bowl		axially-extending, plate-like elements, each having its
59	And structure to receive or guide material loosened		inner edge lying along central region
60	.Including housing for bowl	75	And each extending outwardly
61	And means for reducing, and maintaining, pressure in		in curve of changing or constant radius
	housing below that of environment	76	.Including plurality of axially- extending, tubular elements
62	Serving to support bowl from above		located within vertically- oriented bowl
63	For vertically-oriented bowl, and having plural receivers at	77	Each element concentric with axis of bowl
	top for separated components	78	And at least one element having other-than-circular periphery

79	.Including plurality of axially- extending, plate-like elements
	located within vertically-
	oriented bowl
80	.Including plurality of shelf-
	like elements located within
	vertically oriented bowl and
	extending generally
	horizontally inwardly from
	wall thereof
81	.Material of bowl wall
82	INCLUDING VIBRATION DAMPING MEANS
83	INCLUDING BEARING STRUCTURE
84	INCLUDING SPECIFIC DEVICE OR
	STRUCTURE FOR DRIVING OR
	CONTROLLING BOWL
85	MISCELLANEOUS

## CROSS-REFERENCE ART COLLECTIONS

900	INVOLVING MIXTURE CONTAINING ONE
	OR MORE GASES
901	INVOLVING MIXTURE CONTAINING OIL
902	INVOLVING THE USE OF MERCURY

## FOREIGN ART COLLECTIONS

FOR CLASS-RELATED FOREIGN DOCUMENTS